

**United States Department of the Interior  
Bureau of Reclamation**

***Tyler Creek  
Wasteway  
Stabilization***

**Draft Environmental Assessment**



**Talent Division Rogue River Basin Project  
Oregon**

**June 30, 2003**

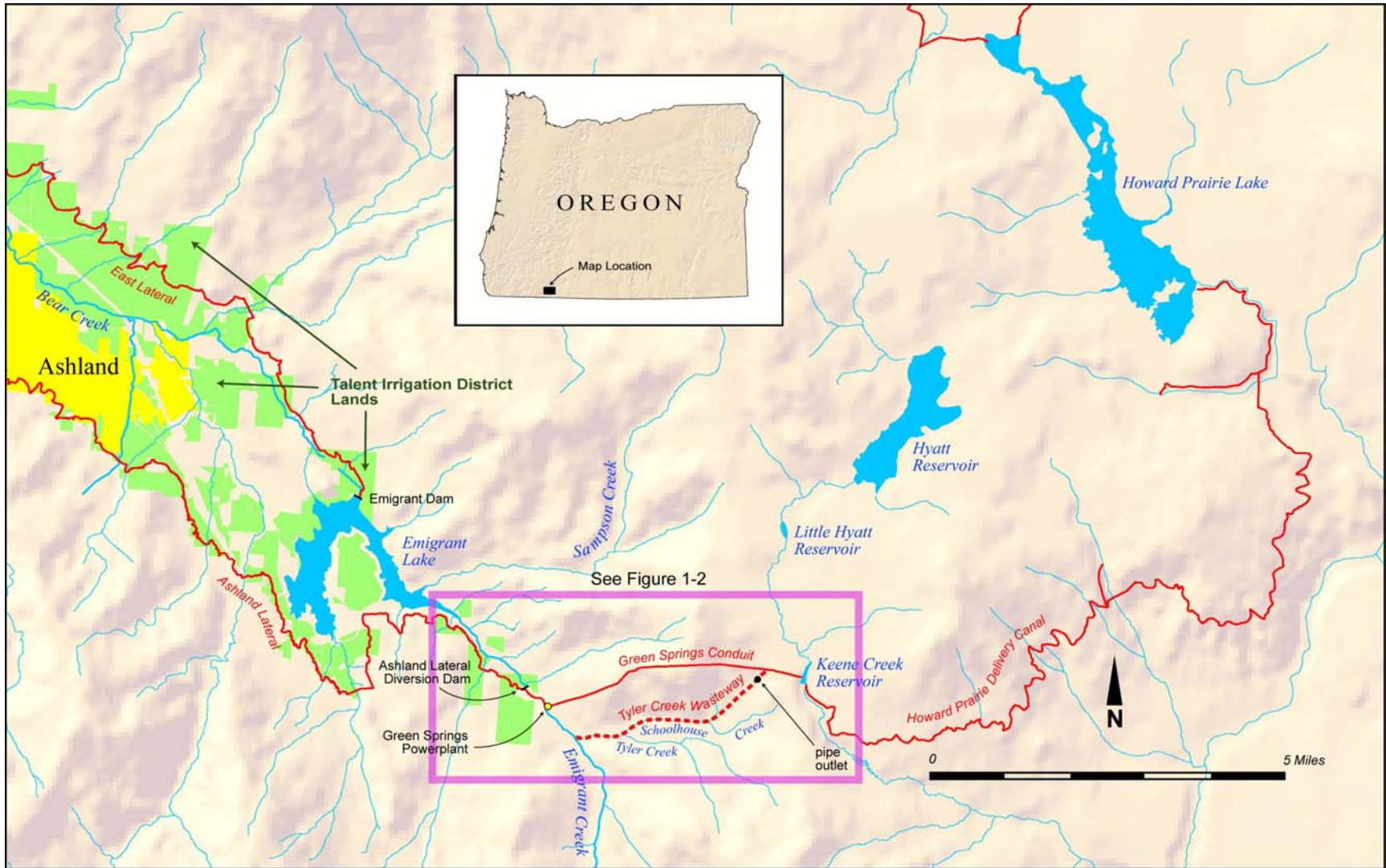
**Lower Columbia Area Office  
Portland, Oregon**

## MISSION STATEMENT

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.



Frontispiece: Location Map



# Glossary

<b>anadromous</b>	fish species that migrate from salt water to fresh water streams and rivers to breed
<b>area of considerable erosion</b>	a single section of Tyler Creek wasteway with considerable bank sloughing with loss of trees and vegetation
<b>areas beyond the scope of this EA</b>	all areas north, east, south, and west of the wasteway's natural channel (as defined below), including those reaches upstream from the pipe outlet and downstream from where Tyler Creek enters Emigrant Creek
<b>bioengineering</b>	using live vegetation, logs, rock, and dead brush to build engineered stabilizing structures that cause minimal environmental disturbance
<b>BLM</b>	U.S. Department of the Interior, Bureau of Land Management
<b>BP</b>	before present time
<b>breccia</b>	rock consisting of sharp fragments imbedded in a fine matrix such as sand or clay
<b>carrion</b>	dead and putrefying flesh
<b>cfs</b>	cubic feet per second; the standard used in Western irrigation practice to measure rate of flow
<b>cm</b>	centimeter
<b>Corps</b>	U.S. Army Corps of Engineers
<b>cribwall</b>	a bin-type retaining wall consisting of interlocking wood members used to stabilize slopes
<b>CWA</b>	Clean Water Act
<b>debitage</b>	debris resulting from stone tool manufacture
<b>EA</b>	environmental assessment — documents: 1) environmental effects of a proposed Federal action, 2) mitigation efforts that would either correct adverse effects or enhance the environment
<b>easement</b>	the right, privilege, or interest obtained through legal conveyance to construct, maintain, and operate facilities within a specified tract of land owned by another party

<b>EIS</b>	environmental impact statement — documents significant environmental effects of a proposed Federal action for which Federal mitigation may not correct
<b>endemic</b>	restricted to or peculiar to a locality, specific region, or area
<b>environmental justice</b>	identification of a proposed Federal Action’s disproportionately high and adverse human health or environmental effects on minority populations and low-income populations (as defined by Presidential Executive Order 12898 in 1994)
<b>EO</b>	Presidential Executive Order
<b>ephemeral</b>	lasting a very short time
<b>ESA</b>	Endangered Species Act
<b>fascine</b>	a long bundle of sticks bound together and used to stabilize slopes
<b>FISRWG</b>	Federal Interagency Stream Restoration Working Group (made up of 15 Federal agencies)
<b>flowage easements</b>	the right or easement to overflow, submerge, or flood certain lands owned by another party
<b>FOG</b>	Friends of the Greensprings
<b>FONSI</b>	Finding of No Significant Impact
<b>gabion</b>	a specially designed box container made of corrosion-resistant wire and filled with coarse rock aggregate to stabilize slopes
<b>geology</b>	the science that deals with the physical history of the earth, the rocks of which it is composed, and the physical changes the earth has undergone or is undergoing
<b>geomorphic</b>	pertaining to the form or general configuration of the earth’s surface and the changes that take place in the evolution of landforms
<b>geotechnology</b>	scientific methods and engineering techniques dealing with the enhancement of and use of natural resources
<b>historic properties</b>	prehistoric and historic archeological sites, buildings, and historically important places eligible for inclusion in the National Register of Historic Places; places of special heritage value to



	contemporary communities because of their association with cultural practices or beliefs important in maintaining the cultural identity of that community
<b>HRA</b>	Heritage Research Associates, Inc.
<b>IF</b>	isolated find
<b>Indian sacred sites</b>	any specific, discrete, narrowly delineated location on Federal land that is identified by an Indian tribe, or Indian individual determined to be an appropriately authoritative representative of an Indian religion, as sacred by virtue of its established religious significance to, or ceremonial use by, an Indian religion (as defined by Executive Order 13007)
<b>ITA</b>	Indian trust assets — legal interests in property held in trust by the United States for Indian tribes or individuals; examples are lands, minerals, hunting and fishing rights, and water rights
<b>KSE</b>	Klamath-Siskiyou Ecoregion
<b>mollusk</b>	an invertebrate characterized by a soft nonsegmented body lacking a spinal column and commonly protected by a hard shell
<b>National Register</b>	National Register of Historic Places
<b>NEPA</b>	National Environmental Policy Act
<b>NOAA Fisheries</b>	National Oceanic and Atmospheric Administration, National Marine Fisheries Service
<b>No Action</b>	the most likely future without the proposed Federal action
<b>NTU</b>	nephelometric turbidity units
<b>ODEQ</b>	Oregon Department of Environmental Quality
<b>ODSL</b>	Oregon Division of State Lands
<b>ONHP</b>	Oregon Natural Heritage Program
<b>pH</b>	a measure of acidity representing the percentage of free hydrogen ions
<b>powerplant</b>	Green Springs Powerplant
<b>project</b>	Rogue River Basin Project, Oregon

<b>proposed action</b>	to upgrade access to Tyler Creek wasteway and stabilize the wasteway channel
<b>Reclamation</b>	U.S. Department of the Interior, Bureau of Reclamation
<b>released water</b>	water released through Rogue River Basin Project's Talent Division facilities
<b>revegetation</b>	the manual planting of native plants on cut banks or landslide areas to provide vegetative cover and stabilize those areas
<b>revetment</b>	an embankment or wall of rocks, trees, cut brush, earth, or sandbags constructed to restrain material from being transported away
<b>right-of-way</b>	an easement that authorizes the use of the land of another party for specified purposes, such as a road or wasteway
<b>riparian vegetation</b>	the trees, shrubs, and plants growing in the moist habitat adjacent to any stream
<b>RVCOG</b>	Rogue Valley Council of Governments
<b>semelparous</b>	fish species that spawn only once and then die
<b>SHPO</b>	Oregon State Historic Preservation Office
<b>SONCC ESU</b>	Southern Oregon/Northern California Coasts coho salmon evolutionarily significant unit
<b>standard engineering</b>	engineering techniques that include backfill, concrete linings, armored banks, concrete revetments, rock riprap, and include concrete and/or metal components
<b>TID</b>	Talent Irrigation District
<b>TMDL</b>	total maximum daily load
<b>USFWS</b>	U.S. Department of the Interior, Fish and Wildlife Service
<b>wasteway</b>	Tyler Creek wasteway; the natural channel used to convey water between the wasteway's pipe outlet and the point where Tyler Creek enters Emigrant Creek



**work area**

the areas limited to: 1) the natural channel used to convey water between the wasteway's pipe outlet and where Tyler Creek enters Emigrant Creek, and 2) the access road right-of-way between Tyler Creek Road and the wasteway